東北大学 宇宙創成物理学国際共同大学院プログラム



GPPU Seminar

"Hadron physics and lattice QCD"

by Shoichi Sasaki (Tohoku University) Time and Date: 15:00-17:00, Nov 15, 2024 Place: Room 309, Physics Lecture Hall (H-24) (hybrid)

Registration: "https://us02web.zoom.us/meeting/register/tZcucOGrrDssH9zec6OYM29ZP8C4pTzSyK49"

The nuclear physics deals with two types of composite particle systems, "nucleus" consisting of nucleons (protons and neutrons) and "hadron" consisting of quarks and gluons as quantum many-body system related to "strong interaction", that is one of the four basic interactions known in nature. The first half of this lecture will give a pedagogical introduction to lattice QCD, which is the numerical simulation of QCD on computers. In the second half of this lecture, I will present some highlights of my recent work on hadron physics using lattice QCD.

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